

What is claimed is:

1. A Serial Advanced Technology Attachment (SATA) cable assembly, comprising:

an insulative housing having a SATA interface;

a plurality of contacts retained in the insulative housing;

a plurality of standard SATA cables each having two differential signal pairs electrically connecting to the contacts for transmitting high speed signals; and

a plurality of single wires electrically connecting to the contacts and located between two standard SATA cables for transmitting low speed signals.

2. The SATA cable assembly as claimed in claim 1, wherein each standard SATA cable further comprises four grounding wires, and two of the grounding wires are neighboring and electrically connected to same contact.

3. The SATA cable assembly as claimed in claim 1, wherein all the plurality of standard SATA cables and single wires are bent in a right angle at positions adjacent to connections between the contacts and the standard SATA cables and single wires.

4. The SATA cable assembly as claimed in claim 3, wherein a right angle cover encloses a mounting portion of the housing and the connections between the contacts and the standard SATA cables and the single wires.

5. The SATA cable assembly as claimed in claim 4, wherein the housing comprises a mating portion opposite to the mounting portion, a plurality of passageways is defined in the housing from a rear face of the mounting portion to the mating portion, an L-shaped receiving space is defined in the mating portion and communicates with the passageways, and the contacts are retained in the passageways and exposed in the L-shaped receiving space.

6. The SATA cable assembly as claimed in claim 1, wherein a PVC boot is utilized to package the standard SATA cables and the single wires.

7. The SATA cable assembly as claimed in claim 1, wherein four standard SATA cables are provided.

8. The SATA cable assembly as claimed in claim 7, wherein the single wires are located in the center of four standard SATA cables.

9. A Serial Advanced Technology Attachment (SATA) cable assembly system, comprising:

a SATA receptacle comprising a mating portion having an L-shaped receiving space, a plurality of first contacts received in the mating portion, a plurality of standard SATA cables and a plurality of single wires electrically connecting with the first contacts;

a SATA plug having four side walls together defining a mating space, an L-shaped tongue in the mating space, a plurality of second contacts mounted in the L-shaped tongue, the mating portion of the SATA plug received in the mating space, the L-shaped tongue received in the L-shaped receiving space so that the first contacts electrically contact with the second contacts.

10. The SATA cable assembly system as claimed in claim 9, wherein each standard SATA cable has two differential signal pairs, the differential signal pairs together with the plurality of single wires electrically connecting to the first contacts.

11. The SATA cable assembly system as claimed in claim 10, wherein the single wires are located between two of the standard SATA cables for transmitting low speed signals.

12. The SATA cable assembly system as claimed in claim 11, wherein each standard SATA cable has four grounding wires, two of the grounding wires are neighboring and are electrically connected to same first contact.

13. A Serial Advanced Technology Attachment (SATA) cable assembly system comprising:

a SATA receptacle comprising a mating portion having an L-shaped receiving space, a plurality of first contacts received in the mating portion, a plurality of standard differential pair SATA cables and a plurality of single wires electrically connecting with the first contacts;

a SATA plug defining a mating space, an L-shaped tongue extending in the mating space, a plurality of second contacts mounted in the L-shaped tongue, the mating portion of the SATA plug received in the mating portion, the L-shaped tongue received in the L-shaped receiving space so that the first contacts electrically contact with the second contacts; wherein

inner jackets of said differential pair SATA cables and said single wires include right angle structures which are commonly enclosed in one piece over-molded cover.